



FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|------|-----------------|---------|------------------------|-------|-----------|-------------|
| AA | AA | | | | | | |
| | AB | | | | | | |
| NM | AC54 | 6,026,286 | 02/2000 | Long | | | |
| | AD54 | 6,178,319 B1 | 01/2001 | Kashima | | | |
| | AE54 | 6,634,555 B1 | 10/2003 | Sorrells <i>et al.</i> | | | |
| | AF54 | 3,736,513 | 05/1973 | Wilson | | | |
| | AG54 | 4,488,119 | 12/1984 | Marshall | | | |
| | AH54 | 4,633,510 | 12/1986 | Suzuki <i>et al.</i> | | | |
| | AI54 | 5,369,789 | 11/1994 | Kosugi <i>et al.</i> | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|------|------------------|---------|---------|-------|-----------|--------------------|
| | AJ | | | | | | Yes No |
| | AK | | | | | | Yes No |
| NM | AL23 | DE 196 48 915 A1 | 06/1998 | DE | | | Yes (Doc. AO59) |
| | AM | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|----|----|----|---|
| NM | AN | 59 | Simoni, A. <i>et al.</i> , "A Single-Chip Optical Sensor with Analog Memory for Motion Detection," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 30, No. 7, pp. 800-806 (July 1995). |
| NM | AO | 59 | English Translation of German Patent Publication No. DE 196 48 915 A1, 10 pages. |
| | AP | | |
| | AQ | | |
| | AR | | |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|------|-----------------|---------|----------------------------|-------|-----------|-------------|
| AM | AA55 | 5,416,449 | 05/1995 | Joshi | — | — | |
| | AB55 | 5,438,329 | 08/1995 | Gastouniotis <i>et al.</i> | — | — | |
| | AC55 | 6,611,569 B1 | 08/2003 | Schier <i>et al.</i> | — | — | |
| | AD55 | 6,647,250 B1 | 11/2003 | Bultman <i>et al.</i> | — | — | |
| | AE55 | 5,682,099 | 10/1997 | Thompson <i>et al.</i> | — | — | |
| | AF55 | 6,094,084 | 07/2000 | Abou-Allam <i>et al.</i> | — | — | |
| | AG55 | 6,067,329 | 05/2000 | Kato <i>et al.</i> | — | — | |
| | AH55 | 6,516,185 B1 | 02/2003 | MacNally | — | — | |
| D | AI55 | 6,608,647 B1 | 08/2003 | King | — | — | |

RECEIVED
MAR 29 2004
Technology Center 2600

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
| | AJ | | | | | | Yes No |
| | AK | | | | | | Yes No |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|--|--|
| | AN | | |
| | AO | | |
| | AP | | |
| | AQ | | |
| | AR | | |

EXAMINER

AM

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|------|-----------------|---------|------------------------|-------|-----------|-------------|
| d/m | AA56 | 6,687,493 B1 | 02/2004 | Sorrells <i>et al.</i> | — | — | |
| | AB56 | 6,694,128 B1 | 02/2004 | Sorrells <i>et al.</i> | — | — | |
| | AC56 | 6,031,217 | 02/2000 | Aswell <i>et al.</i> | — | — | |
| | AD56 | 5,955,992 | 09/1999 | Shattil | — | — | |
| | AE56 | 5,999,561 | 12/1999 | Naden <i>et al.</i> | — | — | |
| | AF56 | 6,686,879 B2 | 02/2004 | Shattil | — | — | |
| | AG56 | 6,704,549 B1 | 03/2004 | Sorrells <i>et al.</i> | — | — | |
| g | AH56 | 6,704,558 B1 | 03/2004 | Sorrells <i>et al.</i> | — | — | |
| | AI | | | | | | |

RECEIVED

MAR 29 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
| | AJ | | | | | | Yes No |
| | AK | | | | | | Yes No |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |

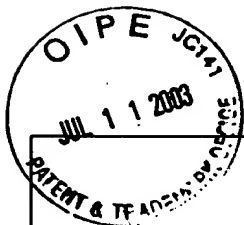
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|--|--|
| | AN | | |
| | AO | | |
| | AP | | |
| | AQ | | |
| | AR | | |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2683

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE |
|---------------------|------|--------------------|---------|----------------|-------|---------------|-------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| NM | AH49 | 3,702,440 | 11/1972 | Moore | | | |
| | AI49 | 3,767,984 | 10/1973 | Shinoda et al. | | | |

RECEIVED

JUL 16 2003

Technology Center 2600

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
|---------------------|------|----------------------|---------|---------|-------|---------------|-------------|
| | | | | | | | |
| NM | AK22 | EP 0 643 477 A2 & A3 | 03/1995 | EP | H03D | 7/16 | N/A |
| NM | AL22 | EP 0 877 476 A1 | 11/1998 | EP | H03D | 7/16 | N/A |
| NM | AM22 | EP 0 977 351 A1 | 02/2000 | EP | H03D | 7/16 | N/A |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|----|----|----|---|
| | | | |
| | | | |
| | | | |
| | | | |
| NM | AR | 57 | Tayloe, D., "A Low-noise, High-performance Zero IF Quadrature Detector/Preamplifier," <i>RF Design</i> , Primedia Business Magazines & Media, Inc., pp. 58, 60, 62 and 69 (March 2003). |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|------|-----------------|---------|--------------------------|-------|-----------|-------------|
| NM | AA60 | 6,169,733 B1 | 01/2001 | Lee | — | — | |
| | AB60 | 6,363,262 B1 | 03/2002 | McNicol | — | — | |
| | AC60 | 6,697,603 B1 | 02/2004 | Lovinggood <i>et al.</i> | — | — | |
| | AD60 | 5,282,222 | 01/1994 | Fattouche <i>et al.</i> | — | — | |
| | AE60 | 5,949,827 | 09/1999 | DeLuca <i>et al.</i> | — | — | |
| | AF60 | 6,014,176 | 01/2000 | Nayebi <i>et al.</i> | | | |
| | AG | | | | | | |
| | AH | | | | | | |
| | AI | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
| | AJ | | | | | | Yes No |
| | AK | | | | | | Yes No |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|--|--|
| | AN | | |
| | AO | | |
| | AP | | |
| | AQ | | |
| | AR | | |

RECEIVED

MAY 18 2004

Technology Center 2600

EXAMINER

d. M. Power

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|------|-----------------|---------|---------|-------|-----------|-------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | | | | |
| | AG | | | | | | |
| | AH | | | | | | |
| NM | AI56 | 5,490,176 | 02/1996 | Peltier | — | — | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
| | AJ | | | | | | Yes No |
| | AK | | | | | | Yes No |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|--|--|
| | AN | | |
| | AO | | |
| | AP | | |
| | AQ | | |
| | AR | | |

RECEIVED
MAY 18 2004
Technology Center 2600

EXAMINER

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



MAY 14 2004

Page 2 of 5

FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|------|-----------------|---------|-------------------------|-------|-----------|-------------|
| UM | AA57 | 5,970,053 | 10/1999 | Schick <i>et al.</i> | — | — | |
| | AB57 | 6,078,630 | 06/2000 | Prasanna | — | — | |
| | AC57 | 6,600,911 B1 | 07/2003 | Morishige <i>et al.</i> | — | — | |
| | AD57 | 5,179,731 | 01/1993 | Tränkle <i>et al.</i> | — | — | |
| | AE57 | 5,589,793 | 12/1996 | Kassapian | — | — | |
| | AF57 | 4,510,467 | 04/1985 | Chang <i>et al.</i> | — | — | |
| | AG57 | 4,772,853 | 09/1988 | Hart | — | — | |
| | AH57 | 4,972,436 | 11/1990 | Halim <i>et al.</i> | — | — | |
| | AI57 | 5,012,245 | 04/1991 | Scott <i>et al.</i> | — | — | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
| | AJ | | | | | | Yes No |
| | AK | | | | | | Yes No |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|--|--|
| | AN | | |
| | AO | | |
| | AP | | |
| | AQ | | |
| | AR | | |

RECEIVED

MAY 18 2004

Technology Center 2600

EXAMINER

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|------|-----------------|---------|---------------------------|-------|-----------|-------------|
| NM | AA58 | 5,422,909 | 06/1995 | Love <i>et al.</i> | — | — | |
| | AB58 | 5,440,311 | 08/1995 | Gallagher <i>et al.</i> | — | — | |
| | AC58 | 5,926,513 | 07/1999 | Suominen <i>et al.</i> | — | — | |
| | AD58 | 5,995,030 | 11/1999 | Cabler | — | — | |
| | AE58 | 6,047,026 | 04/2000 | Chao <i>et al.</i> | — | — | |
| | AF58 | 6,049,573 | 04/2000 | Song | — | — | |
| | AG58 | 6,076,015 | 06/2000 | Hartley <i>et al.</i> | — | — | |
| | AH58 | 6,144,331 | 11/2000 | Jiang | — | — | |
| | AI58 | 6,018,553 | 01/2000 | Sanielevici <i>et al.</i> | — | — | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
| | AJ | | | | | | Yes No |
| | AK | | | | | | Yes No |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|----|--|--|--|
| AN | | | |
| AO | | | |
| AP | | | |
| AQ | | | |
| AR | | | |

RECEIVED

MAY 18 2004

Technology Center 2600

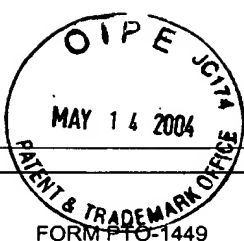
EXAMINER

N. McArthur

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|------|-----------------|---------|-----------------------------|-------|-----------|-------------|
| UM | AA59 | 6,317,589 B1 | 11/2001 | Nash | — | — | |
| | AB59 | 5,058,107 | 10/1991 | Stone <i>et al.</i> | — | — | |
| | AC59 | 5,757,858 | 05/1998 | Black <i>et al.</i> | — | — | |
| | AD59 | 6,531,979 B1 | 03/2003 | Hynes | — | — | |
| | AE59 | 6,018,262 | 01/2000 | Noro <i>et al.</i> | — | — | |
| | AF59 | 4,761,798 | 08/1988 | Griswold, Jr. <i>et al.</i> | — | — | |
| | AG59 | 5,982,315 | 11/1999 | Bazarjani <i>et al.</i> | — | — | |
| | AH59 | 6,459,721 B1 | 10/2002 | Mochizuki <i>et al.</i> | — | — | |
| | AI59 | 6,151,354 | 11/2000 | Abbey | — | — | |

RECEIVED

MAY 18 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
| | AJ | | | | | | Yes No |
| | AK | | | | | | Yes No |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|--|--|
| | AN | | |
| | AO | | |
| | AP | | |
| | AQ | | |
| | AR | | |

EXAMINER

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.